Data sheet

HP 6200 Switch Series

Product overview

The HP 6200 yl Switch Series comprises advanced L3 stackable switches in 1U height. It has 24 mini-GBIC slots and an expansion slot for an optional 4-port 10GbE module. Designed to be deployed as an aggregator of traffic from the edge to the core of the network, this switch series supports a variety of Gigabit mini-GBICs, such as SX, LX, LH, and 1000BASE-T.

The foundation for this switch series is a purpose-built HP ProVision ASIC, which allows the most demanding networking features, such as Quality of Service (QoS) and security, to be implemented in a scalable yet granular fashion. With its high-performance architecture, 10GbE capability, and programmable ASIC, these switches offer excellent investment protection, flexibility, and scalability.

A summary of the highlights of the 6200 yl Switch Series:

- Distribution layer
- L2 to L4 and intelligent edge features
- High performance
- Low-cost mini-GBIC connectivity
- 10GbE uplinks

Features and benefits

Software-defined networking (SDN)

- **NEW OpenFlow**
  Supports OpenFlow 1.0 and 1.3 specifications to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

QoS

- **Advanced classifier-based QoS**
  Classifies traffic using multiple match criteria based on L2, L3, and L4 information; and applies QoS policies such as setting the priority level and rate limiting to selected traffic on a per-port or per-VLAN basis
- **L4 prioritization**
  Enables prioritization based on TCP/user datagram protocol (UDP) port numbers
- **Traffic prioritization**
  Allows real-time traffic classification into eight priority levels that are mapped to eight queues
- **Bandwidth shaping**
  - **Port-based rate limiting**
    Enabled per-port ingress/egress-enforced bandwidth increase
  - **Classifier-based rate limiting**
    Uses an access control list (ACL) to enforce increased bandwidth for ingress traffic on each port
  - **Reduced bandwidth**
    Provides per-port per-queue egress-based bandwidth reduction
- **Class of service (CoS)**
  Sets the IEEE 802.1p priority tag based on the IP address, IP type of service, L3 protocol, TCP/UDP port number, source port, and DiffServ

Management

- **Remote intelligent mirroring**
  Mirrors selected ingress/egress traffic based on an ACL, port, MAC address, or VLAN to a local or remote HP 8200 zl, 6600, 6200 yl, 5400 zl, or 3500 switch located anywhere on the network
- **Remote monitoring (RMON), Extended RMON (XRMON), and sFlow v5**
  Provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **IEEE 802.1AB link-layer discovery protocol (LLDP)**
  Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- **Command authorization**
  Leverages the RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents the activity

- **Friendly port names**
  Allows assignment of descriptive names to ports
- **Dual flash images**
  Provides independent primary and secondary operating system files for backup while upgrading
- **Multiple configuration files**
  Are easily stored with a flash image
- **Unidirectional link detection**
  Monitors the cable between two switches and shuts down the ports on both ends if the cable is broken, turning the bidirectional link into a unidirectional one; this helps prevent network problems such as loops
- **Management simplicity**
  Common software features and CLI implementation across all ProVision-based switches (including the zl and yl switches)
- **Comware CLI**
  - **Comware-compatible CLI**
    Bridges the experience of HP Comware CLI users who use the ProVision software CLI
  - **Display and fundamental Comware CLI commands**
    Are embedded in the switch CLI as native commands; display output is formatted as on Comware-based switches and fundamental commands provide a Comware-familiar initial switch setup
  - **Configuration Comware CLI commands**
    Elicit CLI help to formulate the correct ProVision software CLI command

Connectivity

- **Jumbo frames**
  Allow high-performance remote backup and disaster-recovery services on GbE and 10GbE ports
- **IPv6**
  - **IPv6 host**
    Enables switches to be managed in an IPv6 network
  - **Dual stack (IPv4 and IPv6)**
    Provides the transition mechanism from IPv4 to IPv6; and supports connectivity for both protocols
  - **MLD snooping**
    Forwards IPv6 multicast traffic to the appropriate interface
  - **IPv6 ACL/QoS**
    Supports ACL and QoS for IPv6 network traffic
  - **IPv6 routing**
    Supports static and open standard path first (OSPF) v3 routing protocols
  - **6-in-4 tunneling**
    Supports encapsulation of IPv6 traffic in IPv4 packets

Performance

- **High-speed, high-capacity architecture**
  Provides intra- and inter-module switching with up to 111.5 million pps throughput on the purpose-built ProVision ASICs, using 105.6 Gb/s crossbar switching fabric
- **Selectable queue configurations**
  Enables increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications

Resiliency and high availability

- **NEW virtual router redundancy protocol (VRRP)**
  Allows groups of two routers to dynamically back each other up to create highly available router environments
- **Multiple spanning tree protocol (STP) and IEEE 802.1s**
  Offers high link availability in multiple VLAN environments by allowing multiple spanning trees; encompasses IEEE 802.1D STP and IEEE 802.1w Rapid STP
- **IEEE 802.3ad link-aggregation-control protocol (LACP) and HP port trunking**
  Support up to 144 trunks, each with up to eight links (ports) per trunk
- **Distributed trunking**
  Enables loop-free and redundant network topology without using STP; and allows a server or switch to connect to two switches using one logical trunk for redundancy and load sharing
- **Uplink failure detection**
  Provides active-standby network path redundancy for servers that are configured for active-standby NIC teaming
- **NEW SmartLink**
  Provides easy-to-configure link redundancy of active and standby links

L2 switching

- **IEEE 802.1ad Q-in-Q**
  Increases the scalability of an Ethernet network by providing a hierarchical structure; and connects multiple LANs on a high-speed campus or metro network
- **HP switch meshing**
  Enables dynamic load balancing across multiple active redundant links to increase the aggregate bandwidth availability
- **VLAN support and tagging**
  Supports the IEEE 802.1Q standard and 2,048 VLANs simultaneously
- **IEEE 802.1v protocol VLANs**
  Isolate select non-IPv4 protocols automatically into their own VLANs
- **GARP VLAN registration protocol**
  Allows automatic learning and dynamic assignment of VLANs
- **Rapid per-VLAN spanning tree (RPVST+)**
  Allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+

L3 services

- **UDP helper function**
  Allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses; and helps prevent server spoofing for UDP services such as DHCP
- **Loopback interface address**
  Defines an address in the routing information protocol (RIP) and OSPF, improving the diagnostic capability
- **Route maps**
  Provide more control during route redistribution; and allow filtering and altering of route metrics

L3 routing

- **Static IP routing**
  Provides manually configured routing for both IPv4 and IPv6 networks
- **RIP**
  Includes RIPv1 and RIPv2 routing
- **OSPF (requires the premium license)**
  Provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing
- **IPv4 border gateway routing protocol**
  Is scalable, robust, and flexible

Security

- **Switch CPU protection**
  Provides automatic protection against malicious network traffic trying to shut down the switch
- **Virus throttling**
  Detects traffic patterns typical of worm-type viruses; and either throttles or helps entirely prevent the virus from spreading across the routed VLANs or bridged interfaces without requiring external appliances
- **ICMP throttling**
  Defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic
- **Multiple user authentication methods**
  - **IEEE 802.1X users per port**
    Enables authentication of multiple IEEE 802.1X users per port
  - **Web-based authentication**
    Authenticates from the Web browser for clients that do not support the IEEE 802.1X supplicant
  - **MAC-based authentication**
    Provides client authentication with a RADIUS server, based on the client's MAC authentication
  - **Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port**
    Allows a switch port to accept up to 32 sessions of IEEE 802.1X, Web, and MAC authentications

- **ACLs**
  Provide filtering based on the IP field, source/destination IP address/subnet and source/destination TCP/UDP port number on a per-VLAN or per-port basis
- **Identity-driven ACL**
  Enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
- **DHCP protection**
  Blocks DHCP packets from unauthorized DHCP servers, mitigating denial-of-service attacks
- **STP bridge protocol data units (BPDUs) port protection**
  Blocks BPDUs on ports that do not require BPDUs, mitigating forged BPDU attacks
- **Dynamic IP lockdown**
  Works with DHCP protection to block traffic from unauthorized hosts, mitigating IP source address spoofing
- **Dynamic ARP protection**
  Blocks ARP broadcasts from unauthorized hosts, helping prevent eavesdropping or theft of network data
- **Detection of malicious attacks**
  Monitors 10 types of network traffic; and sends a warning when an anomaly that can be potentially caused by malicious attacks is detected
- **Port security**
  Allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout**
  Helps prevent certain configured MAC addresses from connecting to the network
- **Source-port filtering**
  Allows only specified ports to communicate with each other
- **RADIUS/TACACS+**
  Eases switch management security administration by using a password authentication server
- **Secure shell (SSH)**
  Encrypts all transmitted data for secure remote CLI access over IP networks
- **Secure sockets layer (SSL)**
  Encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Secure FTP**
  Allows secure file transfer to and from the switch; and protects against unwanted file downloads or unauthorized copying of a switch configuration file
- **Management interface wizard**
  Helps secure management interfaces such as SNMP, telnet, SSH, SSL, Web, and USB at the desired level
- **Secure management access**
  Delivers secure encryption of all access methods (CLI, GUI, and MIB) through SSHv2, SSL, and/or SNMPv3
- **Switch management logon security**
  Helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication

- **Security banner**
  Displays a customized security policy when users log in to the switch
- **USB secure auto-run (requires HP PCM+)**
  Deploys, diagnoses, and updates a switch using a USB flash drive; and works with a secure credential to help prevent tampering
- **STP root guard**
  Protects the root bridge from malicious attacks or configuration mistakes

Convergence

- **IP multicast routing**
  Includes PIM sparse and dense modes to route IP multicast traffic
- **IP multicast snooping (data-driven IGMP)**
  Helps prevent flooding of IP multicast traffic
- **LLDP-media endpoint discovery (MED)**
  Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- **PoE allocations**
  Supports multiple methods—automatic, IEEE 802.3af class, LLDP-MED, or user specified—to allocate PoE power for more efficient energy use
- **Auto VLAN configuration for voice**
  - **RADIUS VLAN**
    Uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones
  - **CDPv2**
    Uses CDPv2 to configure legacy IP phones
- **NEW local MAC authentication**
  Assigns attributes such as VLAN and QoS, using a locally configured profile that can be a list of MAC prefixes

Warranty and support

- **Lifetime Warranty 2.0**
  Advance hardware replacement is offered for as long as you own the product with next-business-day delivery (available in most countries)[1]
- **Electronic and telephone support (for Lifetime Warranty 2.0)**
  Limited 24x7 telephone support is provided by HP for the first three years; limited electronic and telephone support during business hours is provided by HP for the complete warranty period; to reach our support centers, visit hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, visit hp.com/networking/warrantysummary
- **Software releases**
  To find software for your product, visit hp.com/networking/support; for details on the software releases available with your product purchase, visit hp.com/networking/warrantysummary

[1] HP warranty includes repair or replacement of hardware for as long as you own the product, with next-business-day advance replacement (available in most countries). The disk drives included—with the HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765 zl Mobility Controller, and HP Survivable Branch Communication zl Module powered by Microsoft® Lync—each have a five-year hardware warranty. For details, refer to the software license and hardware warranty statements at hp.com/networking/warranty.

HP 6200 yl Switch Series

Specifications

HP 6200-24G-mGBIC yl Switch (J8992A)

Ports	24 open mini-GBIC (SFP) slots Supports a maximum of 4 10GbE ports, with optional module
Physical characteristics	17.44(w) x 15.43(d) x 1.73(h) in. (44.3 x 39.2 x 4.4 cm) (1U height)
Weight	14.11 lb (6.4 kg)
Memory and processor	Processor Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 256 MB DDR SDRAM
Processor	
Mounting	Mounts in an EIA-standard 19 in. Telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance	
1000 Mb Latency	< 3.7 µs (FIFO 64-byte packets)
10 Gb/s Latency	< 2.1 µs (FIFO 64-byte packets)
Throughput	Up to 75.7 million pps
Routing/Switching capacity	101.8 Gb/s
Switch fabric speed	105.6 Gb/s
Routing table size	10000 entries (IPv4)
Environment	
Operating temperature	32°F to 131°F (0°C to 55°C); 32°F to 104°F (40°C) when used with any X2 10GbE
Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
Altitude	Up to 15,000 ft. (4.6 km)
Acoustic	Power: 55.1 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics	
Description	The switch automatically adjusts to any voltage between 100–127 and 200–240 V with either 50 or 60 Hz.
Maximum heat dissipation	829 BTU/hr (875 kJ/hr)
Voltage	100–127/200–240 VAC
Current	1.8/0.9 A
Maximum power rating	243 W
Frequency	50/60 Hz
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A

HP 6200 yl Switch Series (continued)

Specifications (continued)

	HP 6200-24G-mGBIC yl Switch (J8992A)
Immunity	
EN	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2, November 2013, Rev. 9-3-2
Flicker	EN 61000-3-3, November 2013, Rev. 9-3-3
Management	HP PCM (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later; for example, J9142B, J8177C)
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6304E) 3-year, 24x7 SW phone support, software updates (UE262E) 1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR889E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR890E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR891E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR868E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR869E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR870E) 4-year, 24x7 SW phone support, software updates (UR871E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR873E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR874E) 5-year, 24x7 SW phone support, software updates (UR875E) 3-year 6-hour Call-to-Repair Onsite (UW356E) 4-year 6-hour Call-to-Repair Onsite (UW357E) 5-year 6-hour Call-to-Repair Onsite (UW358E) 1-year, 6-hour Call-To-Repair Onsite for hardware (HR893E) 1-year, 24x7 software phone support, software updates (HR892E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS610E) 1-year, 24x7 software phone support, software updates + 4-hour hardware exchange (HS611E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS612E) 3-year, 24x7 software phone support, software updates + 4-hour Hardware Exchange (HS613E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS614E) 4-year, 24x7 software phone support, software updates + 4-hour Hardware Exchange (HS615E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS616E) 5-year, 24x7 software phone support, software updates + 4-hour Hardware Exchange (HS617E) Refer to the HP website at hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 6200 yl Switch Series (continued)

Specifications (continued)

	HP 6200-24G-mGBIC yl Switch (J8992A)
Standards and Protocols (applies to all products in series)	
BGP	RFC 1997 BGP Communities Attribute RFC 2918 Route Refresh Capability RFC 4271 A Border Gateway Protocol 4 (BGP-4) RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP) RFC 5492 Capabilities Advertisement with BGP-4
Device management	RFC 1591 DNS (client) HTML and telnet management
General protocols	IEEE 802.1ad Q-in-Q RFC 768 UDP RFC 1542 BOOTP Extensions IEEE 802.1AX-2008 Link Aggregation RFC 783 TFTP Protocol (revision 2) RFC 2030 Simple Network Time Protocol (SNTP) v4 IEEE 802.1D MAC Bridges RFC 792 ICMP RFC 2131 DHCP IEEE 802.1p Priority RFC 793 TCP RFC 2453 RIPv2 IEEE 802.1Q VLANs RFC 826 ARP RFC 2548 (MS-RAS-Vendor only) IEEE 802.1s Multiple Spanning Trees RFC 854 TELNET RFC 3046 DHCP Relay Agent Information Option IEEE 802.1v VLAN classification by Protocol and Port RFC 868 Time Protocol RFC 3576 Ext to RADIUS (CoA only) IEEE 802.1w Rapid Reconfiguration of Spanning Tree RFC 951 BOOTP RFC 3768 VRRP IEEE 802.3ad Link Aggregation Control Protocol (LACP) RFC 1058 RIPv1 RFC 4675 RADIUS VLAN and Priority IEEE 802.3x Flow Control RFC 1350 TFTP Protocol (revision 2) RFC 5798 VRRP (exclude Accept Mode and sub-sec RFC 1519 CIDRtimer)
IP multicast	RFC 3376 IGMPv3 (host joins only) RFC 3973 PIM Dense Mode
IPv6	RFC 1981 IPv6 Path MTU Discovery RFC 3810 MLDv2 for IPv6 RFC 4293 MIB for IP RFC 2375 IPv6 Multicast Address Assignments RFC 3810 Multicast Listener Discovery Version 2 RFC 4294 IPv6 Node Requirements RFC 2460 IPv6 Specification RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2925 Definitions of Managed Objects for Remote (MLDv2) for IPv6 RFC 4022 MIB for TCP RFC 4087 IP Tunnel MIB RFC 4113 MIB for UDP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4541 IGMP and MLD Snooping Switch RFC 4861 IPv6 Neighbor Discovery Ping, Traceroute, and Lookup Operations (Ping only) RFC 4213 Basic Transition Mechanisms for IPv6 Hosts RFC 4862 IPv6 Stateless Address Auto-configuration RFC 3019 MLDv1 MIB RFC 3315 DHCPv6 (client and relay) RFC 3484 Default Address Selection for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extension for IPv6 and Routers RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4253 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4291 IP Version 6 Addressing Architecture RFC 5095 Deprecation of Type 0 Routing Headers in IPv6 RFC 5340 OSPF for IPv6 RFC 5453 Reserved IPv6 Interface Identifiers RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only) RFC 5722 Handling of Overlapping IPv6 Fragments

HP 6200 yl Switch Series (continued)

Specifications (continued)

	HP 6200-24G-mGBIC yl Switch (J8992A)
MIBs	IEEE 802.1ap (MSTP and STP MIBs only) RFC 2021 RMONv2 MIB RFC 2668 802.3 MAU MIB RFC 1213 MIB II RFC 2096 IP Forwarding Table MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 1493 Bridge MIB RFC 2613 SMON MIB RFC 2737 Entity MIB (Version 2) RFC 1724 RIPv2 MIB RFC 2618 RADIUS Client MIB RFC 2787 VRRP MIB RFC 1850 OSPFv2 MIB RFC 2620 RADIUS Accounting MIB RFC 2863 The Interfaces Group MIB RFC 2665 Ethernet-Like-MIB RFC 2925 Ping MIB
Network management	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 3176 sFlow SNMPv1/v2c/v3 ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) XRMON
OSPF	OSPF RFC 2328 OSPFv2 RFC 3101 OSPF NSSA
QoS/CoS	RFC 2474 DiffServ Precedence, including 8 queues/port RFC 2597 DiffServ Assured Forwarding (AF)
Security	IEEE 802.1X Port Based Network Access Control RFC 2865 RADIUS (client only) RFC 3579 RADIUS Support For Extensible Authentication RFC 1492 TACACS+ RFC 2866 RADIUS Accounting Protocol (EAP) Secure Sockets Layer (SSL) SSHv2 Secure Shell

HP 6200 yl Switch Series accessories

HP 6200-24G-mGBIC yl Switch (J8992A)
HP 10GbE 2-port SFP+/2-port CX4 yl Module (J9312A)

HP 10GbE 2-port X2/2-port CX4 yl Module (J8694A)

HP X131 10G X2 SC ER Transceiver (J8438A)

HP X131 10G X2 SC SR Transceiver (J8436A)

HP X131 10G X2 CX4 Transceiver (J8440C)

HP X111 100M SFP LC FX Transceiver (J9054C)

HP X131 10G X2 SC LR Transceiver (J8437A)

HP X131 10G X2 SC LRM Transceiver (J9144A)

HP X112 100M SFP LC BX-D Transceiver (J9099B)

HP X112 100M SFP LC BX-U Transceiver (J9100B)

HP X121 1G SFP LC LH Transceiver (J4860C)

HP X121 1G SFP LC SX Transceiver (J4858C)

HP X121 1G SFP LC LX Transceiver (J4859C)

HP X121 1G SFP RJ45 T Transceiver (J8177C)

HP X122 1G SFP LC BX-D Transceiver (J9142B)

HP X122 1G SFP LC BX-U Transceiver (J9143B)

HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)

HP 620 Redundant/External Power Supply (J8696A)

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